

(C)

PLOT SCALE: 1=1

DWG. SCALE: 1

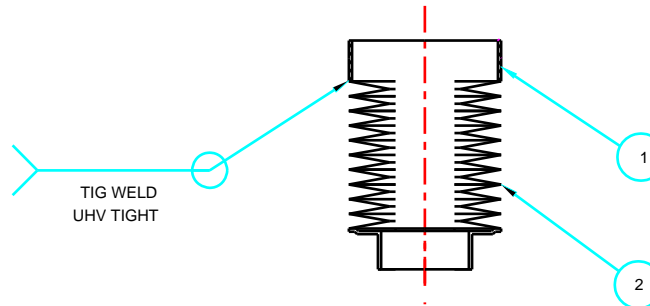
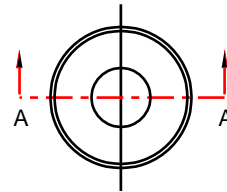
A2411300

4

3

2

1



SECTION A - A

## NOTES:

1. THIS IS A ULTRA - HIGH - VACUUM ASSEMBLY (UHV)  
KEEP THE UHV PARTS CLEAN DURING ASSEMBLY,  
AND WRAP UP FOR PACKING WITH ALUMINUM FOIL
2. THE ASSEMBLY SHALL BE LEAK TESTED  
USING A MASS SPECTROMETER WITH  
MINIMUM SENSITIVITY FOR HELIUM  
OF 2X 10<sup>-10</sup> STANDARD CC/SEC PER  
LEAK METER DIVISION, SUCH AS:

ALCATEL ASM-110TCL  
VARIAN NCR 925 OR 936  
VEECO MS-9, MS-90 OR MS-18  
Du PONT CEC 24-120B

CALIBRATION OF THE LEAK DETECTOR  
SENSITIVITY SHALL BE PERFORMED JUST  
PRIOR TO TESTING.

FINAL TEST WILL CONSIST OF SURROUNDING  
THE ASSEMBLY (BAGGING) WITH HELIUM. THE  
ASSEMBLY WILL BE REJECTED IF A 2% DEFLECTION  
IN THE MOST SENSITIVE RANGE OF THE LEAK  
DETECTOR IS SENSED WITHIN 1 MIN.

3. DIMENSIONS IN [ ] ARE MILLIMETERS AND  
FOR REF. ONLY

## REF. SOURCE

1 STANDARD BELLOWS CO.  
375 ELLA T. GRASSO TURNPIKE  
WINDSOR LOCKS, CT 06096  
TEL: 1-203-623-2307  
FAX: 1-203-623-0398

1

|      |                 |  |                 |     |
|------|-----------------|--|-----------------|-----|
| 2    | 162-75-ED       | BELLOWS                                | SST             | 1   |
| 1    |                 | 1.625 O.D. X .035 WALL X .250 LG. TUBE | SST             | 1   |
| ITEM | DWG/PART NUMBER | NOMENCLATURE OR DESCRIPTION            | MATERIAL / SPEC | QTY |

## PARTS LIST

UNLESS OTHERWISE SPECIFIED:  
ALL DIMENSIONS ARE IN INCHES

## TOLERANCES

DECIMALS ANGULAR

.X - .03 [.7620] - .25  
.XX - .01 [.254] - .25  
.XXX - .005 [.127] - .25

SURFACE ROUGHNESS 125

REMOVE ALL BURRS AND  
BREAK SHARP EDGES .03 MAX.  
SURFACE TEXTURE TO BE IN  
ACCORDANCE WITH LATEST ANSI B46.1

DIMENSIONING & TOLERANCING IN  
ACCORDANCE WITH LATEST ANSI Y14.5

DO NOT SCALE DRAWING

LOG NUMBER

A2411300

DRAWN BY

MUSCIA

DATE

3/8/96

CHECKED BY

D. SHU

DATE

6/23/96

DESIGNER

SHU/MUSCIA

DATE

3/8/96

RESPONSIBLE ENGINEER

D. SHU

DATE

6/23/96

MATERIAL

SEE PARTS LIST



THIS DRAWING IS THE PROPERTY OF  
ARGONNE NATIONAL LABORATORY

CHIEF DESIGN ENGINEER

D. SHU

DATE

6/23/96

GP LEADER

T.M. KUZAY

PROJECT MGR.

APPROVED/RELEASED

TITLE

ADVANCED PHOTON SOURCE  
L2-90 "PINK BEAM"  
SLIT/BPM BELLOWS  
ASSEMBLY

SCALE 1:1  
SHEET 1 of 1

SIZE C

DRAWING NUMBER  
P4105091502-910103-00

4

3

2

1